Communications Interoperability

Louisiana Totally Interoperable Environment

Mission Statement

Deliver a wireless network with much greater bandwidth which will support full voice, data, and imagery interoperability for all users in the emergency services community.

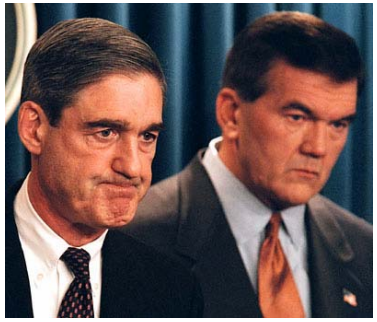
Emergency Services Community

- Police and Sheriff's Departments
- Fire Departments
- Louisiana National Guard
- EMS
- 911/Communication Operators
- DHH and Hospital Community
- Federal Agencies
- Louisiana State Police

LSP Team

- Chief of Staff Mark Oxley
- LTC Joseph Booth
- Major Mickey McMorris
- Sgt. Mark Morrison
- TPR Drapher Crain
- Rex McDonald
- John Aranyosi
- Dick McDonald
- Jeya Selvaratnam
- Chief Counsel Willie Broome

Problem Statement



Phone lines jammed after attacks

BY MICHAEL DAVIS AND VANDANA SINHA
THE VIRGINIAN-PILOT

Tuesday's terrorist attacks in New York and Washington prompted a barrage of telephone calls to and from the region, overloading the East Coast's communications grid and jamming phone and wireless services across Hampton Roads for much of the day.

"It was like the phone couldn't tell I was dialing. Then I got a fast busy signal," said Local consumers found that many phone calls failed to go through or were dropped. For at least part of the morning, South Hampton Roads could not reliably connect to the Peninsula, although traffic eased as the day progressed.

"We're doing our best, but something of this magnitude you just can't plan for," said Scott E. Golden of Cavalier Telephone, which has about 40,000 land-line customers around Hampton Roads.

Wireless services such as

sites of graphics and advertisements, hoping that would speed up traffic.

Local news sites were hardly spared.

"The WVEC Web site is getting an inordinately high amount of traffic," said Ralph A. Rogers, general manager of Exis Net Inc., which hosts the site. "It's probably three to five times more than we'd normally see."

With double the normal number of site visits, **pilotonline.com** juggled content

- ✓ **Communications interrupted**
- ✓ **DoD insight was very limited**
- ✓ **Limited Intelligence sharing**
- ✓ **Slow Command, Control, and Coordination between DoD and Civil authorities**

Communications Limited

- Little Interoperability Among Responders
- Isolated Geographic Networks With Limited Compatibility
- Insufficient bandwidth for Wireless Support for Data and Image
- Limited Security
- Proprietary Systems Designed Not to Share
- No Shared Operational Picture

Traditional Solutions

- Another PTT System
- Single Agency Inter-Disciplinary Approach
- No Sharing of Infrastructure or Information
- Random Frequency Allocation
- Expensive, Duplicitous, Stove Piped

Proposed Solutions

- Open Standards, Open Architecture
- Digital Signal to IP Network
- Legacy Reachback
- Software Based System
- Talk Groups Based on Policy, not Proprietary Standards

The Interoperability Goal

- Statewide
- Full Voice, Data, Image Transfer
- Cross Disciplinary (All Emergency Services)
- Digital Wireless Network
- Reachback to Legacy Systems
- Component Upgradeable
- IP Based
- Horizontal and Vertical Fusion
- Full Funding For Sustainment and Maintenance

The Interoperability Goal, Cont.

- Decision Support
- Shared Operating Picture
  - Sensor Integration
  - Image Integration
  - Data Mining
  - Advanced Pattern Search
  - Convert Data into Knowledge

Interoperability Steps

- Agreement - Shared Vision Means Shared Operating Picture
- User Group Support – System Requirements
- Technology Plan – How to Deliver Interoperability
- Financial Plan – How to Pay For It
- Implementation Plan – Logical and Phased
- Governing Board – Policy, Administration, etc

Shared Vision

- Entire Emergency Services Community
- Voice, Data, Image Interoperability
- Common Operating Picture With Critical Infrastructure Asset Monitoring
- Total Fusion

User Group

- Representative of User Community
- Team Point of Contact for Input and Influence
- Local Point of Contact for Information and Status
- Decision Authority For System Requirements

Technology Plan

- 760 Mhz
- 4.9 Ghz
- IP Based
- Software Solutions
- Baton Rouge Pilot
- Thibodaux ACTD
- New Orleans Project
- Interoperability with Current 800 Mhz and Other Systems Currently in Use

Financial Plan

- Recurring Revenue
- Congressional Earmark
- Local Funding
- Utility Service Fee
- DHS Grant Funding
  - LETPP
  - UASI

Implementation Plan

- Identify Requirements
- Establish User Group
- Collect Technology Solutions
- Establish Funding Means
- Field Test New Technologies
- Phased, Regional Installation
- Training
- Maintenance

System Governance

- User Group Appointed
- Policy
- Maintenance
- Training
- Upgrades, Technology and Capability Evolutions

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